

Figure 1. Process Diagram for Construction of the User Model

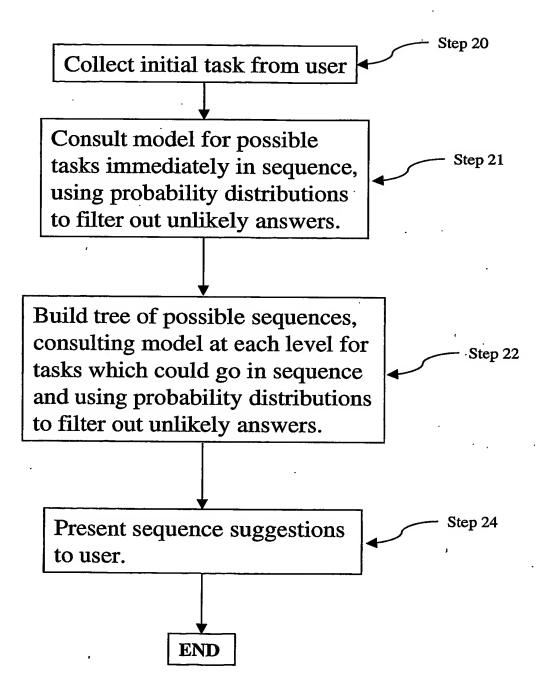


Figure 2a: Summary Diagram showing Prediction of Sequences of Tasks

WO 2005/024683 PCT/GB2004/003741

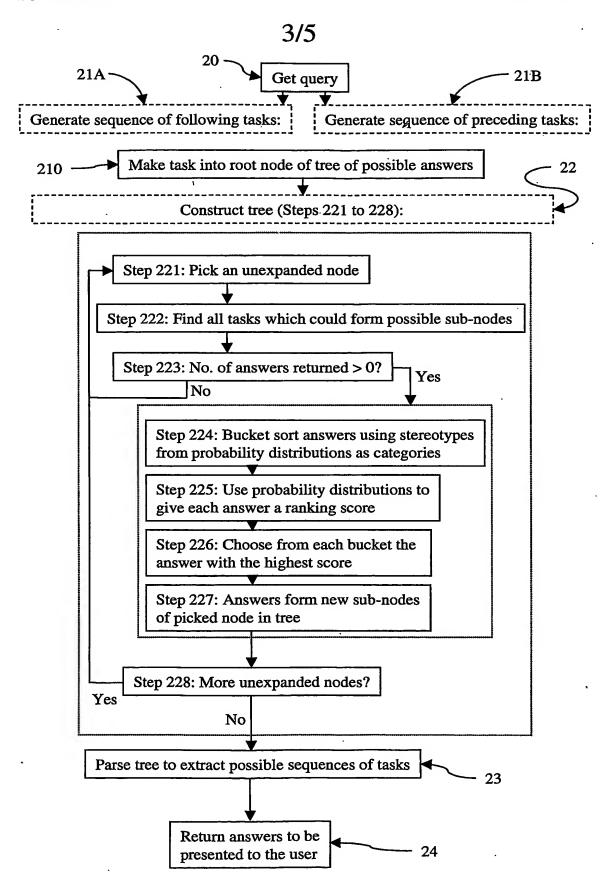


Figure 2b: Process Diagram showing Prediction of Sequences of Tasks

## 301: Get query tasks 302 For each task: Generate sequence of following tasks: 303: Make task into root node of tree of possible answers 304 Construct tree: 305: Pick an unexpanded node 306: Find all tasks which could form possible sub-nodes No of answers returned > 0? Yes No 307: Bucket sort answers using stereotypes from probability distributions as categories 308: Use probability distributions to give each answer a ranking score 309: Choose from each bucket the answer with the highest score 310: Select those answers which are close to those user specified tasks which are not already represented by a node in the tree under construction 311: Answers form new sub-nodes of picked node in tree 312: More unexpanded nodes? No 313: Parse tree to extract longest possible sequence of tasks

Figure 3: Process Diagram for Predicting Sequences for Sets of Tasks

Figure 3 (continued)

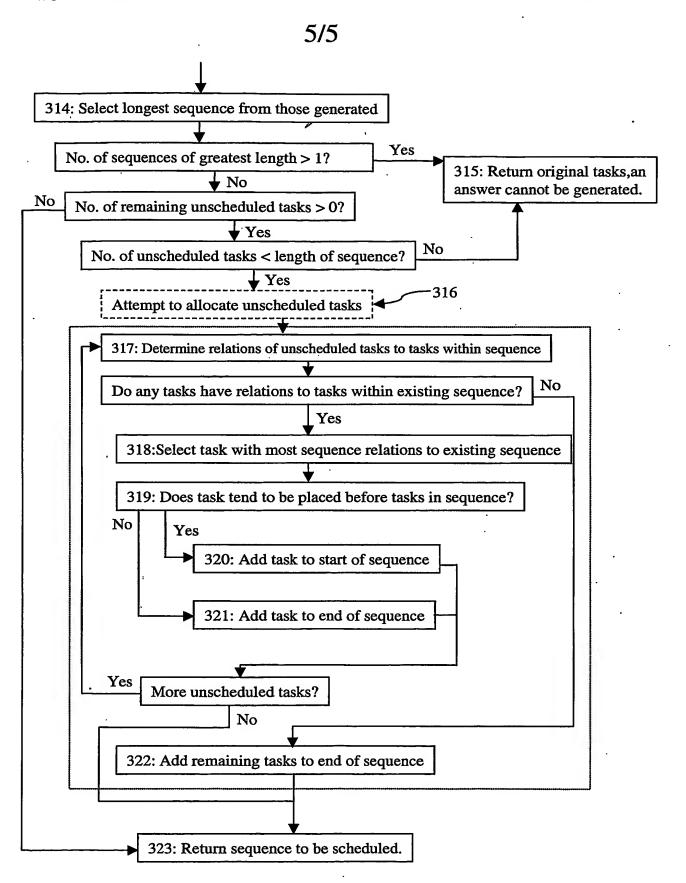


Figure 3 (continued)